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Search Results - Record(s) 1 through 3 of 3 returned.

☑ 1. Document ID: US 4931355 A

L1: Entry 1 of 3 File: USPT

US-PAT-NO: 4931355
DOCUMENT-IDENTIFIER: US 4931355 A

TITLE: Nonwoven fibrous hydraulically entangled non-elastic coform material and method of formation thereof

DATE-ISSUED: June 5, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Radwanski; Fred R.	Norcross	GA	30092	
Trimble; Lloyd E.	Dustin	OK	74839	
Chambers, Jr.; Leon E.	Roswell	GA	30076	
Connor; Linda A.	Atlanta	GA	30328	

US-CL-CURRENT: 442/344; 28/104, 428/359, 428/903, 428/913, 442/400, 442/401

ABSTRACT:

Nonwoven fibrous non-elastic webs, reinforced nonwoven fibrous non-elastic webs and methods of forming the same are disclosed. The nonwoven fibrous non-elastic webs are a hydraulically entangled coform or admixture of non-elastic meltblown fibers and fibrous material, with or without particulate material. The fibrous material (e.g., non-elastic fibrous material) can be at least one of pulp fibers, staple fibers, meltblown fibers and continuous filaments. The use of meltblown fibers facilitates the hydraulic entangling, resulting in a high degree of entanglement and enabling the more effective use of shorter fibrous material. The hydraulic entangling technique provides a nonwoven fibrous material having increased web strength and allows for better control of other product attributes, such as absorbency, wet strength, printability and abrasion resistance. The coform can be hydraulically entangled with a reinforcing material, e.g., a melt-spun nonwoven, a scrim, screen, net, etc.

26 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☑ 2. Document ID: US 4784892 A

L1: Entry 2 of 3 File: USPT

US-PAT-NO: 4784892

DOCUMENT-IDENTIFIER: US 4784892 A

TITLE: Laminated microfiber non-woven material

DATE-ISSUED: November 15, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Storey; Dennis G.	Maidstone			GB3
Maddern; Peter	Maidstone			GB3

US-CL-CURRENT: 428/172; 15/209.1, 156/290, 156/308.4, 156/62.4, 156/62.6, 156/62.8, 156/73.1, 210/507, 210/508, 428/198 , 442/345, 55/527, 55/528

ABSTRACT:

Non-woven material useful for example for disposable wipers and the like which comprises a layer of meltblown polymeric microfibers inter-mixed with fibres of absorbent material and/or absorbent or super-absorbent particles, the absorbent fibres and/or particles being inter-connected by and held captive within the polymeric microfibres matrix of fibres by mechanical entanglement and interconnection of the microfibres/absorbent fibres, (when present), and at least one layer of meltblown polymeric microfibres, the layers being bonded together ultrasonically or by the application of heat or heat and pressure to cause the microfibres in one layer to bond to the microfibres in an adjacent layer so as to produce fuse bonds extending through the material.

Such material can readily absorb fluids including oil, and can subsequently be squeezed out readily. The material also has an integral strength and a substantially lint free wiping surface.

4 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

KWIC | Draw Desc | Image

☑ 3. Document ID: US 3950473 A

L1: Entry 3 of 3 File: USPT

US-PAT-NO: 3950473
DOCUMENT-IDENTIFIER: US 3950473 A

TITLE: Process for producing synthetic pulp from a film of a mixture of polypropylene and low density polyethylene

DATE-ISSUED: April 13, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iwahori; Eitaro	Narashino			JA
Kurita; Mitsuo	Yokohama			JA
Uno; Mitsumasa	Ichihara			JA

US-CL-CURRENT: 264/141; 162/157.5, 264/151, 264/DIG.47

ABSTRACT:

Synthetic pulp having a peculiar structure is prepared by making a composition consisting of 50 to 90 parts by weight of polypropylene having a melt flow rate of 30 to 150 and 50 to 10 parts by weight of low density polyethylene having a melt index of 0.5 to 10 into a film having a thickness of 70 .mu. or less, uniaxially stretching the film, cutting the stretched film to a predetermined length of 5 mm or less, and fibrillating the cut film by a crumpling and disintergrating action mainly by blows and air whirling stream. A suitable apparatus for such fibrillation is presented. Synthetic pulp thus prepared provides a paper-like material having superior properties by blending it with e.g. wood pulp.

10 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Term	Documents
"3950473"[USPT]	1
3950473S	0
"4784892"[USPT]	1
4784892S	0
"4931355"[USPT]	1
4931355S	0
("3950473" OR "4784892" OR "4931355")[PN].USPT.	3
((3950473 OR 4784892 OR 4931355)[PN]).USPT.	3

Display Format: REV | Change Format

Previous Page Next Page